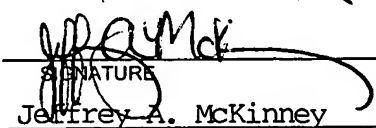


TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 07TJ-116264
INTERNATIONAL APPLICATION NO. PCT/US2003/038235		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/536856
INTERNATIONAL FILING DATE 02 December 2003		PRIORITY DATE CLAIMED 02 December 2002
TITLE OF INVENTION RARE EARTH COMPOSITIONS AND STRUCTURES FOR REMOVING PHOSPHATES FROM WATER		
APPLICANT(S) FOR DO/EO/US Rudi E. Moerck and Timothy M. Spitler		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 		
Items 11 to 20 below concern document(s) or information included:		
<ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input checked="" type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: International Search Report; Article 19 Amendments. 		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 107536856		INTERNATIONAL APPLICATION NO. PCT/US2003/038235		ATTORNEY'S DOCKET NUMBER 07TJ-116264		
The following fees have been submitted				CALCULATIONS	PTO USE ONLY	
21. <input checked="" type="checkbox"/> Basic national fee..... \$300				\$ 300.00		
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$100 All other situations..... \$200				\$ 200.00		
23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared and provided to the Office..... \$400 All other situations..... \$500				\$ 500.00		
TOTAL OF 21, 22 and 23 =				\$		
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE			
22 - 100 =	-0- /50 =		x \$250	\$ 0.00		
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).				\$		
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$		
Total claims	27 - 20 =	7	x \$ 50	\$ 350.00		
Independent claims	2 - 3 =	0	x \$200	\$		
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$ 360.00		
TOTAL OF ABOVE CALCULATIONS =				\$1,710.00		
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.						
SUBTOTAL =				\$1,710.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				+		
TOTAL NATIONAL FEE =				\$1,710.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+		
TOTAL FEES ENCLOSED =				\$1,710.00		
				Amount to be refunded:	\$	
				Amount to be charged:	\$	
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1,710.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>501395</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>						
<p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p>						
<p>SEND ALL CORRESPONDENCE TO:</p> <p>Jeffrey A. McKinney Sheppard Mullin Richter & Hampton LLP 333 S. Hope Street, 48th Fl. Los Angeles, CA 90071</p>						
				 SIGNATURE Jeffrey A. McKinney NAME		
				43,795		
				REGISTRATION NUMBER		

DUPLICATE

PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE
AS DESIGNATED/ELECTED OFFICE (DO/EO/US)

In re Application of:

Rudi E. Moerck, et al.

Serial No.: Filed Herewith

Filed: Filed Herewith

For: RARE EARTH COMPOSITIONS AND STRUCTURES FOR REMOVING
PHOSPHATES FROM WATER

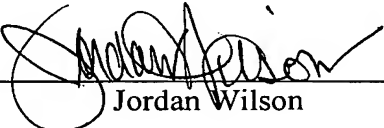
Atty. Dkt.: 07TJ-116264

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
ATTN: DO/EO/US

CERTIFICATE OF EXPRESS MAIL 37 CFR 1.10

Sir:

I hereby certify that the attached papers are being deposited with the United States Postal Service "Express Mail Post Office To Addressee" service under 37 CFR 1.10, Mailing Label Number **EV 306103823 US** addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, ATTN: DO/EO/US on **May 27, 2005**.



Jordan Wilson

SHEPPARD MULLIN
RICHTER & HAMPTON LLP
333 South Hope Street, Floor 48
Los Angeles, CA 9007101406
(415) 434-9100 (tel)
(415) 434-3947 (fax)

G. Peter Nichols
312.321.4276
gpnichols@brinkshofer.com

July 28, 2004

VIA FACSIMILE TRANSMISSION
011 (+41-22) 740.14.35

Attn: Authorized Officer
Alex Schmidt

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20
Switzerland

RE: International Application No. PCT/US03/38235
Applicant: Altair Nanomaterials Inc.
International Filing Date: 02/12/2003
Title: Rare Earth Compositions and Structures for
Removing Phosphates from Water
Attorney Docket: 10225/64 (A27)

Dear Sir:

In response to the International Search Report, Applicant encloses an Amendment Under Article 19 and Rule 46, along with new claim pages 11-13.

Respectfully submitted,



G. Peter Nichols
Attorney for Applicant
Altair Nanomaterials Inc.
GPN:am

10/536856
JC20 Rec'd PCT/PTO 27 MAY 2005
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NBC TOWER - SUITE 3600
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TELEPHONE 312-321-4200

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